

CLAIMS

1. A composition comprising geranium oil and extractions from the root of *Sophora tonkinesis*.
2. The composition of claim 1, wherein said geranium oil and extractions from the root of *Sophora tonkinesis* have a weight ratio of about 30:1.
3. The composition of claim 1, wherein said composition takes on the form of a mixture of powders of geranium oil and powders of extracts from the root of *Sophora tonkinesis*.
4. The composition of claim 3, wherein said mixture further comprises excipients
5. The composition of claim 3, wherein said powders of geranium oil is about 55.94% of the mixture of powders.
6. The composition of claim 5, wherein said powders of geranium oil further comprises excipients.
7. The composition of claim 3, wherein said powders of extractions from the root of *Sophora tonkinesis* is about 0.958% of the mixture of powders.
8. The composition of claim 7, wherein said powders of extractions from the root of *Sophora tonkinesis* further comprises excipients.
9. The composition of claim 1, wherein said composition takes on the form of oil capsule, tablets, pills, liquid or pastes.
10. The composition of claim 1, wherein said geranium oil is extracted from one or more species of the genus *Pelargonium*.

11. The composition of claim 1, wherein said geranium oil is extracted from a plant of the genus *Pelargonium* and species *graveolens*.
12. The composition of claim 1, wherein said geranium oil is extracted from a plant of the genus *Pelargonium* and species *roseum*.
13. The composition of claim 1, wherein said geranium oil is extracted from a plant of the genus *Pelargonium* and species *terebinthineum*.
14. A composition comprising citronellol, geraniol, geranyl formate, citronellyl formate, matrine, and oxymatrine.
15. A composition comprising citronellol, geraniol, geranyl formate, citronellyl formate, linalool, trans-rose oxide, cis-rose oxide, matrine, oxymatrine, and sophocarpine.
16. A composition comprising geranium oil, matrine, and oxymatrine.
17. A composition comprising extractions from the root of *Sophora tonkinensis*, citronellol, geraniol, citronellyl formate, and geranyl formate.
18. A composition comprising A and B wherein A is selected from a group consisting of hexanol, 3-hexen-1-ol, α -pinene, β -pinene, P-cymene, limonene, 1,8-cineol, ocimene, linalol oxide, linalol, trans-rose oxide, cis-rose oxide, citronellal, menthone, iso-methone, menthol, terpineol, citronellol, geraniol, citronellyl formate, geranyl formate, caryophellene, citronellyl propionate, gurjunene, cadiene, and B is selected from a group consisting of matrine, oxymatrine, anagyrine, methylcytisine, cytosine, sophocarpine, sophocarpine N-oxide, sophoramine, sophoranol, sophorane, sophoradin, sophoranechromene, sophoradichromene, pterocarpine, genistein, maackian, trifolirhizin, sitosterol, lu-peol, and alkyl alcohol ester.

19. The composition of claims 1, 9, 14, 15, 16, 17, or 18, wherein said composition further comprises a pharmaceutically acceptable solvent.

20. A method for administering a composition comprising the steps of:

- (a) locating one or more mammalian animals being treated or to be treated with one or more cancer treatments;
- (b) determining a route of administering said composition to said one or more mammalian animals;
- (c) determining a form of said composition to be administered to said one or more mammalian animals;
- (d) obtaining a therapeutically effective dosage of said composition wherein said composition comprises geranium oil and extractions from the root of Sophora tonkinesis;
- (e) placing said composition in an apparatus for administration; and
- (f) delivering said dosage of said composition to said one or more mammalian animals being treated or to be treated with said one more cancer treatments.

21. The method of claim 20, wherein said composition comprises the composition of claims 14, 15, 16, 17, or 18.

22. The method of claim 20, wherein said one or more mammalian animals are one or more humans.

23. The method of claim 20, wherein said one or more mammalian animals are one or more canines or monkeys.

24. The method of claim 20, wherein said one or more mammalian animals are non-rodents.

25. The method of claim 20, wherein said one or more mammalian animals are rodents.

26. The method of claim 25, wherein said rodents are mice, rats, rabbits, or hamsters.

27. The method of claim 20, wherein said one or more cancer treatments induce a bone marrow suppression side effect.

28. The method of claim 20, wherein said one or more cancer treatments induce a leukopenia side effect.

29. The method of claim 20, wherein said one or more cancer treatments involve the administration of one or more chemotherapeutic agents.

30. The method of claim 29, wherein said chemotherapeutic agent induces the bone marrow suppression side effect.

31. The method of claim 29, wherein said chemotherapeutic agent induces the leukopenia side effect.

32. The method of claim 29, wherein said chemotherapeutic agent is 5-Fluorouracil.

33. The method of claim 29, wherein said chemotherapeutic agent is doxorubicin.

34. The method of claim 20, wherein said one or more cancer treatments involve radiation therapy.

35. The method of claim 20, wherein said step of delivering said dosage of said composition is carried out by delivering said composition to said mammalian animals before they are being treated with said one or more cancer treatments.

36. The method of claim 20, wherein said step of delivering said dosage of said composition is carried out by delivering the composition to said mammalian animals

before and after they are being treated with said one or more cancer treatments.

37. The method of claim 20, wherein said step of delivering said dosage of said composition is carried out by delivering said composition to said mammalian animals after they are being treated with said one or more cancer treatments.

38. The method of claim 20, wherein said step of delivering said dosage of said composition is carried out by delivering said composition to said mammalian animals during said one or more cancer treatments.

39. The method of claim 20, wherein said route of delivering said dosage of said composition is oral administration.

40. The method of claim 39, wherein said dosage is in a range between about 280 mg/kg/day and about 6300 mg/60kg/day.

41. The method of claim 39, wherein said oral administration is carried out by administering powders comprising said composition to said one or more mammalian animals.

42. The method of claim 39, wherein said oral administration is carried out by administering one or more tablets comprising said composition to said one or more mammalian animals.

43. The method of claim 39, wherein said oral administration is carried out by administering one or more oil capsules comprising said composition to said one or more mammalian animals.

44. The method of claim 39, wherein said oral administration is carried out by administering one or more pills comprising said composition to said one or more mammalian animals.

45. The method of claim 39, wherein said oral administration is carried out by

administering pastes comprising said composition to said one or more mammalian animals.

46. The method of claim 39, wherein said oral administration is carried out by administering food additives comprising said composition to said one or more mammalian animals.

47. The method of claim 39, wherein said oral administration is carried out by administering a dietary supplement comprising said composition to said one or more mammalian animals.

48. The method of claim 39, wherein said oral administration is carried out by administering health food comprising said composition to said one or more mammalian animals.

49. The method of claim 39, wherein said oral administration is carried out by administering a liquid comprising said composition to said one or more mammalian animals.

50. The method of claim 39, wherein said oral administration is carried out by administering a syrup comprising said composition to said one or more mammalian animals.

51. The method of claim 39, wherein said oral administration is carried out by administering decoction soup comprising said composition to said one or more mammalian animals.

52. The method of claim 39, wherein said oral administration is carried out by administering edible forms of Pelargonium plant and the root of *Sophora tonkinesis*.

53. The method of claim 39, wherein said oral administration is carried out by administering said geranium oil and powders of the root of *Sophora tonkinesis*.

54. The method of claim 39, wherein said oral administration is carried out by administering geranium oil and pastes made from the root of *Sophora tonkinesis*.

55. The method of claim 39, wherein said oral administration is carried out by administering geranium oil and soup mixture from decocting the root of *Sophora tonkinesis*.

56. The method of claim 39, wherein said oral administration is carried out by administering said extractions from the root of *Sophora tonkinesis* and soup mixture from decocting the Pelargonium plant.

57. The method of claim 39, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55 or 56, wherein said composition of extractions from the Pelargonium plant and the root of *Sophora tonkinesis* has a weight ratio of about 30:1.

58. The method of claim 20, wherein said route of administering said composition is carried out by administering intraperitoneally said composition to said one or more mammalian animals.

59. The method of claim 20, wherein said route of administration is carried out by administering intravenously said composition to said one or more mammalian animals.

60. A method for administering a composition comprising the steps of:

(a) locating one or more mammalian animals being treated with one or more cancer treatments;

(b) preparing a dosage in the range of between about 280 mg/kg/day and about 6300 mg/60kg/day of said composition, wherein said composition comprises geranium oil and extractions from the root of *Sophora tonkinesis*; and

(c) delivering said dosage of said composition to said one or more mammalian animals being treated with said one or more cancer treatments.

61. The method of claim 60, wherein said dosage is about 350 mg/kg/day.
62. The method of claim 60, wherein said dosage is about 2100 mg/60kg/day.
63. The method of claim 60, wherein said cancer treatment is 5-Fluorouracil.
64. A method for administering a composition comprising the steps of:
- (a) locating one or more mammalian animals being treated or to be treated with one or more cancer treatments;
 - (b) determining a route of administering said composition to said one or more mammalian animals;
 - (c) determining a form of said composition to be administered to said one or more mammalian animals;
 - (d) obtaining a therapeutically effective dosage of said composition wherein said composition comprises geranium oil and extractions from the root of *Sophora tonkinesis*;
 - (e) placing said composition in an apparatus for administration;
 - (f) determining a time interval between separate administrations; and
 - (g) delivering said dosage of said composition to said one or more mammalian animals being treated or to be treated with said one more cancer treatments following said interval.
65. The method of claim 64, wherein said time interval is one to fourteen days.
66. The method of claim 64, wherein said time interval is within twenty-four hours or within forty-eight hours.
67. A composition comprising geranium oil and extractions from the root of *Sophora* plants.
68. The composition of claim 67, wherein said root of *Sophora* plants are root of *Sophora alopecuroides*.

69. The composition of claim 67, wherein said root of Sophora plants are root of *Sophora moorcroftiana*.

70. The composition of claim 67, wherein said root of Sophora plants are root of *Euchresta strigillosa*.

71. The method of claim 60, wherein said composition comprises the composition of claims 14, 15, 16, 17, or 18.

72. The method of claim 64, wherein said composition comprises the composition of claims 14, 15, 16, 17, or 18.